#### PATENT COOPERATION TREATY

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From the NTERNATIONAL SEARCH	ING AUTH	ORITY		JUL 1	1 2005
To: MARCUS THYMIAN MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 SOUTH WACKER DRIVE SUITE 3100 CHICAGO, IL 60606			PCT DUE DATE: 10-6-6 BY:		
	-			(PCT Rule 43bis.1)	
	·		Date of mailing (day/month/year)	06 JUL 2005	
Applicant's or agent's file r	efarence		FOR FURTHER ACTION See paragraph 2 below		
03-930-A International application No	`	International filing date	e (day/month/year) Priority date (day/month/year)		
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PCT/US04/36179 International Patent Classifi	cation (IPC)	01 November 2004 (01. or both national classification	tion and IPC	31 October 2003 (31.10.2003)	
IPC(7): G06K 7/10 and US					
Applicant	<u> </u>	<del></del>			
IOTA WIRELESS LLC					
1. This opinion contains i	ndications rel	ating to the following item	ns:		
Box No. I	Basis of the	e opinion			
Box No. II	Priority	•			
<u> </u>			egard to novelty, inve	ntive step and industrial applicability	
Box No. IV Lack of unity of invention					
Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI					
Box No. VII	Certain des	ects in the international a	pplication		
Box No. VIII		servations on the internati			
- THE STATE A COLL	NN I				
International Prelimin	national prelinary Examinin	ng Authority ("IPEA") e	except that this does IPEA has notified t	be considered to be a written opinion s not apply where the applicant choc he International Bureau under Rule 66. lered.	oses an
IPEA a written reply t	together, whe	re appropriate, with amen expiration of 22 months	dments, before the ex	PEA, the applicant is invited to submit xpiration of 3 months from the date of a whichever expires later.	to the mailing
3. For further details, see					:
Name and mailing address	of the ISA/I	S	Authorized offic	er ~?	
Name and mailing address of the ISA/ US  Mail Stop PCT, Atm: ISA/US			Lisa M. Caputo	\ \(\frac{1}{100}\rightarrow\)	_
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Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.

PCT/US04/36179

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

Form PCT/ISA/237(Box No. I) (January 2004)

International application No. PCT/US04/36179

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims 1-23	YES			
Noverty (14)	Claims NONE	270			
	Cidilis IVONE				
Inventive step (IS)	Claims NONE	YES			
	Claims 1-23				
Industrial applicability (IA)	Claims 1-23	YES			
	Claims NONE	NO			
2. Citations and explanations:					
Please See Continuation Sheet					
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		·			
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Form PCT/ISA/237 (Box No. V) (January 2004)

International application No.

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Box No.	VII	Certain defects in the international application				

The following defects in the form or contents of the international application have been noted:

The descriptions are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents.

The drawings are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or content thereof: Figure 1 should be labeled prior art.

There are no reference numbers on Figure 2, although the specification does indeed cite reference numbers for Figure 2. Reference number 300 appears in the specification but does not appear on Figure 3.

Form PCT/ISA/237 (Box No. VII) (January 2004)

Supplemental Box

International application No. PCT/US04/36179

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In case tile space in any of the preceding boxes is not suitchest.
V. 2. Citations and Explanations:  Claims 1-21 lack an inventive step under PCT Article 33(3) as being obvious over Hirshberg (U.S. Patent Application Publication No. 2002/0027549) in view of Kielsnia (U.S. Patent No. 6,449,363).  Hirshberg teaches a multi-functional keypad on a touch screen. Regarding claims 1, 9, and 18, Hirshberg teaches a system and method for data entry in a portable device comprising a keypad having a plurality of buttons (3x5 keypad with
4-way soft keys, e.g., 100, 102, 104 and three way soft key 106), at least one of the buttons being associated with two or more characters, a tilt sensor operable to detect a tilt on the keys, and a processor that is programmed to identify two or more characters based on one of the plurality of the buttons being pressed concurrently with the tilt subjected by the user (see Figures 1-5, paragraphs 46-56).
Regarding claims 1, 9, and 18, although Hirshberg teaches a tilt sensor with regards to the keys, Hirshberg fails to teach a tilt sensor that is operable to detect a tilt subjected to the portable device by the user.  Kielsnia teaches a safety tilt mechanism for a portable telephone including a speakerphone. Kielsnia discloses that a
tilt sensor 108 detects the position of the orientation of the phone and can assess whether the speakerphone can be used based on the result of the tilt sensor (see Figures 1-2, col 1 line 45 to col 2 line 45).
In view of the teaching of Kielsnia, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the tilt sensor of Kielsnia to the system of Hirshberg because Kielsnia teaches a more comprehensive, overall tilt sensor which is better able to sense the movements of the entire keypad in concert with the
movements of each key, for a better, more accurate reading.  Regarding claims 2-8, 10-17, and 19-21, Hirshberg teaches that the portable device is a mobile phone having a front face, left and right sides, a top and bottom, and that the keypad is a standard 12 button alphanumeric keypad on the front face of the phone (see paragraph 28). In addition, Hirshberg teaches that the tilt is detected along different axes and that a processor is used along with the tilt sensor (see paragraphs 15-28).
Claims 22-23 lack an inventive step under PCT Article 33(3) as being obvious over the prior art as applied in the immediately preceding paragraph and further in view of Mura (U.S. Patent Application Publication No. 2003/0003976).  Regarding claims 22-23, Hirshberg as modified by Kielsnia fails to teach the use of an acceleration sensor and a digital camera.
Mura teaches a memory card, PDA, information processing method, recording medium, and program. Mura

discloses that the memory card 1 inserted into the PDA 60 has a tilt sensor 23 to detect a tilt angle, the memory card 1 can also have an acceleration sensor to detect acceleration applied thereto or a temperature sensor to detect temperature thereto. In addition, the PDA has additional features, such as speakers and a digital camera (see Figures 3-4, paragraphs 95-117).

In view of the teaching of Mura, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ an acceleration sensor because this additional feature is able to detect more information which makes for a more comprehensive system and a more efficient system (i.e. the keys on the keypad are better recognized). In addition, it would have been obvious to one of ordinary skill in the art at the time the invention was made

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Supplemental Box In case the space in any of the preceding boxes is not sufficient.						
to employ a digital camer	a because digital cameras are	also efficient objects to obta	ain information.			
claimed can be made or use	Claims 1-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter timed can be made or used in industry. For example, the system and method for data entry can be used by consumers in order to send directive data and information more quickly and efficiently.					
	4. <sup>1</sup>		•			
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